

Algebra 1  
Mrs. Arot/Mrs. Britton  
Chapter 9: Rational Expressions

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify. **\*\*SHOW ALL YOUR WORK\*\***

1.  $\frac{x^2 - 6x + 9}{x^2 - 9}$

2.  $\frac{-x^2 + 10x - 9}{x^2 + 2x - 3}$

3.  $\frac{-4a^2 - 16a + 48}{a^2 - 5a + 6}$

4.  $\frac{5a - 15}{-a^2 - 5a + 24}$

5.  $\frac{x - 9}{x^2 - 9x}$

6.  $\frac{2a^3 + 18a^2 + 40a}{-a^3 + 25a}$

7. $\frac{3x^2-12}{3x+15}$	8. $\frac{5x^2-5x-30}{10x^2+70x+100}$
9. $\frac{c^2+7c-8}{c^2+11c+24}$	10. $\frac{-6x^2+24x-24}{14x-28}$

In writing explain how to simplify

$$\frac{x^2-x-42}{x^2-49}$$

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